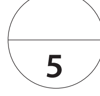
15 Marks

Model (1)

1 Choose the correct answer:



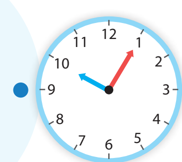
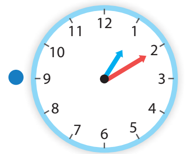
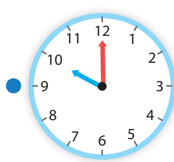
a 6 : 05 + 65 minutes. What time is described?

- 6 : 60
- 7 : 00
- 7 : 05
- 7 : 10

b If a key of a line plot indicates that each x = 4 boys, then 6 xs = ...

- 10
- 16
- 20
- 24

c Which clock shows 1 : 10?

- 
- 
- 
- 

d A rectangle is 12 cm long and 10 cm wide, its perimeter = ...

- 22 cm
- 44 cm
- 44 cm^2
- 40 cm^2

e 150 tens .... 15 × 100

- $<$
- $>$
- =
- otherwise

2 Complete each of the following:

5

a 35 is seven times greater than ....

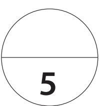
b 100 tens = ... hundreds

c The factors of the number 12 are ....

d The GCF of 12 and 18 is ....

e If the area of a rectangle is 36 cm^2 and its length is 4 cm, then its width = 9 cm

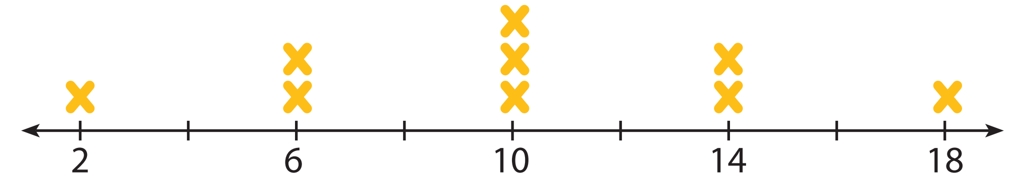
3 Solve the following:



a Use the following line plot to answer these questions:

Time of practice

Key X = 5 students



What does the previous line plot represent ? ....

How many student practice for 10 minutes? ....

b Use decomposing, commutative property and the associative property of multiplication to find the product of 200×4

....

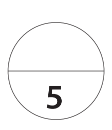
....

....

....

15 Marks Model (2)

1 Choose the correct answer:



a. A perimeter of a square with side length 20 mm is ....

- 80 mm^2
- 80 mm
- 80 cm
- 40 mm

b. 60 is ten times as great as the number ....

- 50
- 5
- 6
- 10

c. 480 hundreds = ... thousands.

- 48,000
- 48
- 480
- 4,800

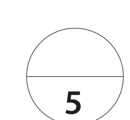
d. The only even prime number is ....

- 1
- 2
- 3
- 5

e. Which of the following numbers is not a multiple of 2? ....

- 14
- 21
- 18
- 30

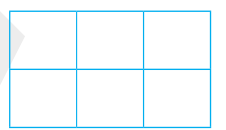
2 Complete each of the following:



a. The perimeter of a rectangle of length 12 cm and width 6 cm is .... = 36 cm.

b. 21 is three times greater than ....

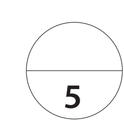
c. We can express the opposite array using the multiplication equation ....



d. The GCF of 6 and 12 is ....

e. .... is a multiple of all numbers.

3 Solve the following:



a. **Use the number line to find the first four multiples of 4 except 0**

....

....

b Find the factors of 12 and 24 by using the factor tree, then find the GCF.

....

....

....

....

15 Marks

Model (3)

1 Choose the correct answer:

5

a The dimensions of a rectangle whose area is 24 cm^2 my be ....

- (6 cm , 3 cm)
- (12 cm , 4 cm)
- (6 cm , 4 cm)
- (6 cm , 8 cm)

b 20 is five times greater than the number ....

- 4
- 5
- 6
- 10

c The greatest common factor of 6 and 9 is ....

- 3
- 6
- 9
- 18

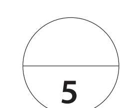
d Which of the following numbers is a multiple of 2 and 5? ....

- 15
- 30
- 25
- 52

e The value of m in the equation $m \times 9 = 81$ is ....

- 2
- 9
- 4
- 6

2 Complete each of the following:



a A square with an area of 64 cm^2, its perimeter = ...

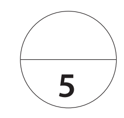
b Karim saves L.E. 500 monthly, then what he saves in 7 months = ...

c Adam studied for 2 hours and 45 minutes. If he started studying at 8 : 05 p.m. , **at what time did he finish?** ....

d The GCF of 5 and 20 is ....

e The common factors between 12 and 21 are .... and ....

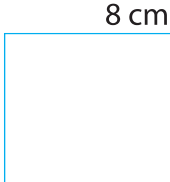
3 Solve the following:



a **Find the area and the perimeter of the given shape:**

....

....

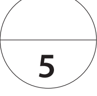


b Sama has 50 crayons and her sister Lily has four times what Laila has. **How many crayons does Lily have?**

....

15 Marks

Model (1)



1 Choose the correct answer:

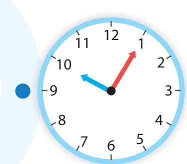
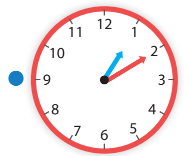
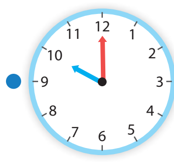
a 6 : 05 + 65 minutes. What time is described?

- 6 : 60
- 7 : 00
- 7 : 05
- 7 : 10

b If a key of a line plot indicates that each x = 4 boys, then 6 xs = ...

- 10
- 16
- 20
- 24

c Which clock shows 1 : 10?

- 
- 
- 
- 

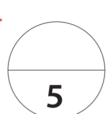
d A rectangle is 12 cm long and 10 cm wide, its perimeter = ...

- 22 cm
- 44 cm
- 44 cm²
- 40 cm²

e 150 tens .... 15 × 100

- <
- >
- =
- otherwise

2 Complete each of the following:



a 35 is seven times greater than 5

b 100 tens = 10 hundreds

c The factors of the number 12 are 1 , 2 , 3 , 4 , 6 , 12

d The GCF of 12 and 18 is 6

e If the area of a rectangle is 36 cm² and its length is 4 cm, then its width = 9 cm

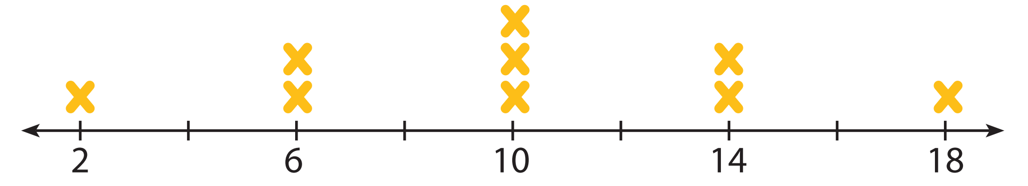
3 Solve the following:

5

a Use the following line plot to answer these questions:

Time of practice

Key X = 5 students



What does the previous line plot represent ? Time of practice of some students

How many student practice for 10 minutes? 15 students

b Use decomposing, commutative property and the associative property of multiplication to find the product of 200×4

200×4 ← Decomposing

2 100

$2 \times 100 \times 4$

$2 \times 4 \times 100$ Commutative property

$(2 \times 4) \times 100$ Associative property

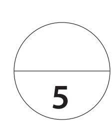
$= 8 \times 100 = 800$

15 Marks

Model (2)



1 Choose the correct answer:



a A perimeter of a square with side length 20 mm is ....

- 80 mm^2
- 80 mm
- 80 cm
- 40 mm

b 60 is ten times as great as the number ....

- 50
- 5
- 6
- 10

c 480 hundreds = ... thousands.

- 48,000
- 48
- 480
- 4,800

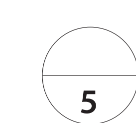
d The only even prime number is ....

- 1
- 2
- 3
- 5

e Which of the following numbers is not a multiple of 2? ....

- 14
- 21
- 18
- 30

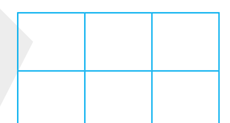
2 Complete each of the following:



a The perimeter of a rectangle of length 12 cm and width 6 cm is 36 cm.

b 21 is three times greater than 7

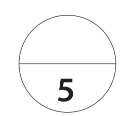
c We can express the opposite array using the multiplication equation 2 × 3 or 3 × 2



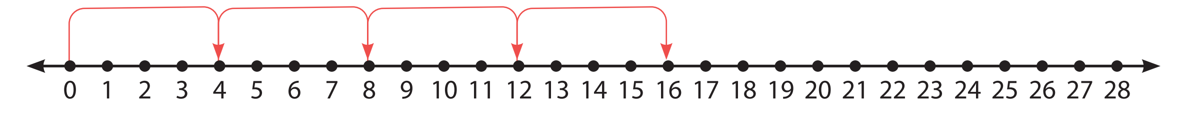
d The GCF of 6 and 12 is 6

e 0 is a multiple of all numbers.

3 Solve the following:

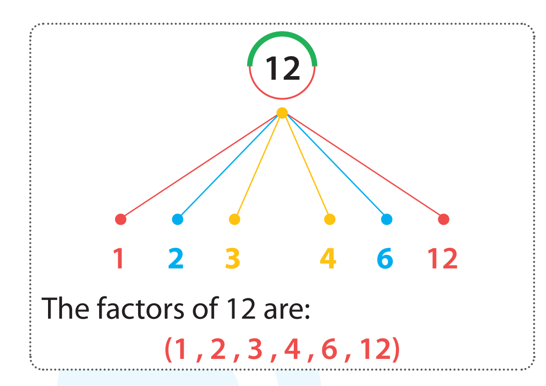


a Use the number line to find the first four multiples of 4 except 0

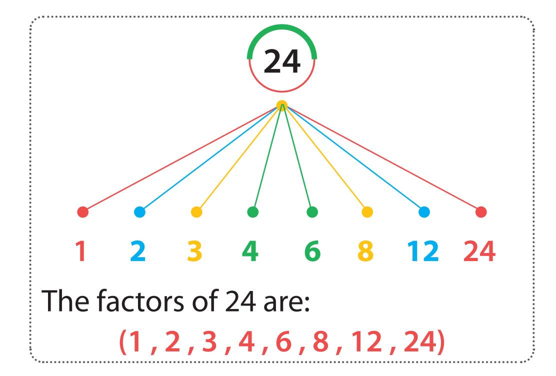


4 , 8 , 12 , 16

b Find the factors of 12 and 24 by using the factor tree, then find the GCF.



The factors of 12 are:
(1 , 2 , 3 , 4 , 6 , 12)

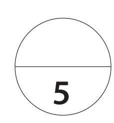


The factors of 24 are:
(1 , 2 , 3 , 4 , 6 , 8 , 12 , 24)

The GCF is: 12

15 Marks

Model (3)



1 Choose the correct answer:

a The dimensions of a rectangle whose area is 24 cm^2 my be ....

- (6 cm , 3 cm)
- (12 cm , 4 cm)
- (6 cm , 4 cm)
- (6 cm , 8 cm)

b 20 is five times greater than the number ....

- 4
- 5
- 6
- 10

c The greatest common factor of 6 and 9 is ....

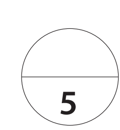
- 3
- 6
- 9
- 18

d Which of the following numbers is a multiple of 2 and 5? ....

- 15
- 30
- 25
- 52

e The value of m in the equation $m \times 9 = 81$ is ....

- 2
- 9
- 4
- 6



2 Complete each of the following:

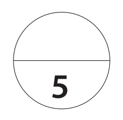
a A square with an area of 64 cm^2, its perimeter = 32 cm

b Karim saves L.E. 500 monthly, then what he saves in 7 months = L.E 3500

c Adam studied for 2 hours and 45 minutes. If he started studying at 8 : 05 p.m. , at what time did he finish? 10 : 50 p.m.

d The GCF of 5 and 20 is 5

e The common factors between 12 and 21 are 1 and 3

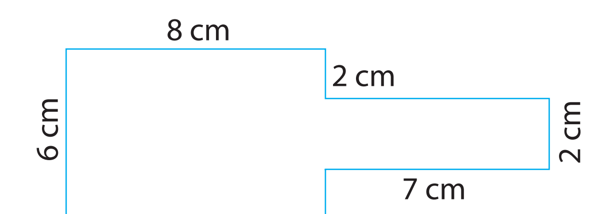


3 Solve the following:

a Find the area and the perimeter of the given shape:

$P = 8 + 6 + 8 + 2 + 7 + 2 + 7 + 2 = 42$ cm

$A = (6 \times 8) + (2 \times 7) = 48 + 14 = 62\ cm^2$



b Sama has 50 crayons and her sister Lily has four times what Laila has. **How many crayons does Lily have?**

The number of crayons which Lily has = 50 × 4 = 200 crayons



Test 1



1 Choose the correct answer : (5 marks)

1. Which of the following is a multiple of 5 ?

   ⓐ 12 ⓑ 56 ⓒ 45 ⓓ 89

2. The missing factor in the box equals ....

   ⓐ 6,000 ⓑ 600
   ⓒ 60 ⓓ 6

   (60, 10, □)

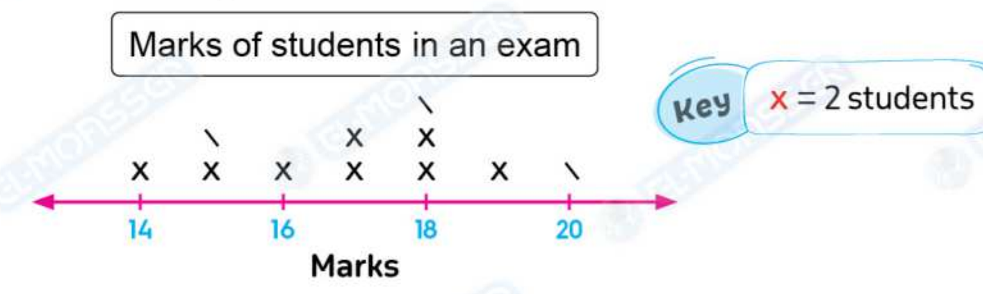
3. 45 is .... times the number 9.

   ⓐ 40 ⓑ 5 ⓒ 6 ⓓ 9

4. A square its side length is S. What is its perimeter ?

   ⓐ S + S ⓑ S × S ⓒ S × 4 ⓓ S + S + S

5. Use the line plot,



   How many students are in the class in all ?

   ⓐ 14 ⓑ 19 ⓒ 21 ⓓ 22

2 Complete : (5 marks)

1. 97 mm = ... cm, ... mm
2. 2 × [3 × 4] = [2 × ....] × 4
3. If A × 7 = 35, then A = ...
4. .... is the only even prime number.
5. 10 is .... times the number 2.

3 [a] Sandy purchased 3 kg , 400 g of sugar and 5 kg , 217 g of rice. What is the total mass which Sandy carried ? (2 marks)

....

....

[b] Find the GCF of 40 and 50. (3 marks)

....

....

....

....

Test 2

Total mark
15

1 Choose the correct answer : (5 marks)

1. The common factor of all numbers is ....
   - (a) 0
   - (b) 1
   - (c) 2
   - (d) 3

2. If a × 33 = 33 × 7 , then a = ...
   - (a) 33
   - (b) 40
   - (c) 7
   - (d) 31

3. The length of a rectangle = ...
   - (a) Area ÷ length
   - (b) Area ÷ width
   - (c) length × width
   - (d) Area × width

4. If ants walk about 3,000 meters each day, then the ants walk .... km
   - (a) 3
   - (b) 150
   - (c) 15,000
   - (d) 15

5. Which of the following is not a prime number ?
   - (a) 2
   - (b) 7
   - (c) 9
   - (d) 11

2 Complete : (5 marks)

1. If the area of the opposite figure equals 25 cm^2 , then the value of x is .... cm

2. 160 = ... tens
3. All the factors of 10 are ....
4. 500 × 3 = ...
5. The perimeter of the rectangle = ... + ...

3 **[a]** Amal is putting a border around the edge of a square cake. One side of the cake is 30 cm long. How long will the border of Amal's cake be ? (2 marks)

....

....

[b] List the common factors and the greatest common factor (GCF) of 18 and 6 (3 marks)

Factors of 18 : ....

Factors of 6 : ....

Common factors : ....

GCF : ....

Test 3

Total mark
15

1 Choose the correct answer : (5 marks)

1. All the following numbers are composite except ....
   - (a) 66
   - (b) 67
   - (c) 68
   - (d) 69
2. What number is 10 times the number 17 ?
   - (a) 27
   - (b) 1,700
   - (c) 7
   - (d) 170
3. The length of a rectangle is b , the width is c.
   What is the calculation for its area ?
   - (a) b + c
   - (b) b × c
   - (c) [2 × b] + [2 × c]
   - (d) [2 × b] × [2 × c]
4. If Marvina studied from 4:10 P.M. to 5:00 P.M. , then she studied .... minutes.
   - (a) 60
   - (b) 110
   - (c) 40
   - (d) 50
5. 9 m – 90 cm = ... cm
   - (a) 990
   - (b) 81
   - (c) 810
   - (d) 99

2 Complete : (5 marks)

1. If a × 7 = 7 × 8 , then a = ...
2. 19,000 = ... × 19
3. The multiplicative equation of 8 + 8 + 8 + 8 + 8 = 40 is ....
4. 18 has .... factors
5. The perimeter of a square of side length 10 m is .... m

3 [a] Applying the properties of multiplication to find : $2 \times 3 \times 5$ (2 marks)

....

....

....

[b] Calculate the area and the perimeter of the following complex shape.

(3 marks)

7 m
1 m
3 m
3 m

....

....

....

Answers of Test 1

1 1 c | 2 d | 3 b | 4 c | 5 b

2 1 9 , 7 | 2 3 | 3 5 | 4 2 | 5 5

3 [a] The total =

	kg	g
	3	400
+	5	217

8 kg and 617 g

[b] Factors of 40 : 1 , 2 , 4 , 5 , 8 , 10 , 20 , 40

Factors of 50 : 1 , 2 , 5 , 10 , 25 , 50

Common factors : 1 , 2 , 5 , 10

GCF : 10

40	
1	40
2	20
4	10
5	8

50	
1	50
2	25
5	10

Answers of Test 2

1 1 b | 2 c | 3 b | 4 a | 5 c

2 1 5 | 2 16 | 3 1 , 2 , 5 , 10

4 1,500 | 5 $2 \times L + 2 \times W$

3 [a] The length of the border = $30 \times 4 = 120$ cm

[b] Factors of 18 : 1 , 2 , 3 , 6 , 9 , 18

Factors of 6 : 1 , 2 , 3 , 6

Common factors : 1 , 2 , 3 , 6

GCF : 6

Answers of Test 3

1 1 b 2 d 3 b 4 d 5 c

2 1 8 2 1,000 3 $8 \times 5 = 40$ 4 6 5 40

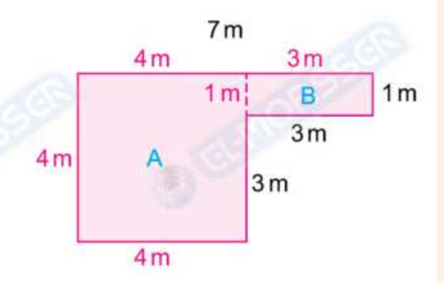
3 [a] $2 \times 3 \times 5 = 2 \times 5 \times 3$

$= (2 \times 5) \times 3$

$= 10 \times 3$

$= 30$

[b] Area of the square A $= 4 \times 4 = 16\ m^2$



Area of the rectangle B $= 3 \times 1 = 3\ m^2$

Area of the complex figure $= 16 + 3$

$= 19\ m^2$

Perimeter of the complex figure $= 7 + 1 + 3 + 3 + 4 + 4$

$= 22$ m

Revision

Mathematics Exercises For November Syllabus

First: **Choose the correct answer:**

1. 35 x 0 = ... (0 or 35 or 350 or 305)
2. The length of a rectangle is 20 cm and its width is 10 cm, then its area is .... cm^2. (2 X 10 + 10 or 10 + 20 or 60 or 200)
3. .... is a factor of 63. (2 or 5 or 7 or 11)
4. Which of the following represents (35 x 6)? ....
   ((3 x 6)+(50 x 6) or (30 x 6) +(50 x 6) or (30 x 6)+(5 x 6) or (3 x 6) +(5 x 6))
5. The **greatest common factor** of 12 and 6 is ....
   (2 or 36 or 6 or 12)
6. .... is not a multiple of 7. (42 or 3 or 707 or 77)
7. The length of a rectangle is 8 cm and its width is 4 cm, then its area is .... cm^2. (12 or 32 or 24 or 64)
8. The length of a rectangle is L and its width is W, then its perimeter is ....
   (L+W or LxW or (L + W) x 2 or (2+L)+W)
9. All factors of 16 are ....
   (1,16 or 2,4,8 or 1,2,4,8,16 or 1,2,4,6,8,16)
10. A rectangle whose length is 20 cm and its width is 10 cm, so its perimeter is .... cm. (2 x 20 ÷ 10 or 20 ÷ 10 or 60 or 200)
11. 45 is .... times 5. (9 or 6 or 5 or 40)
12. 106 x 4 > .... (80 x 10 or 10 x 10 or 50 x 20 or 8 x 109)
13. The perimeter of a square whose area is 25 cm^2 is equal to the perimeter of the rectangle whose dimensions are ....
    (12 cm, 13 cm or 8 cm, 12 cm or 6 cm, 4 cm or 5 cm, 5 mm)
14. The area of a rectangle whose length is 9 cm and whose width is 4 cm is equal to the area of the square whose perimeter is .... cm.
    (24 or 36 or 13 or 18)

15 17 is a prime number because it has ....
(two factors only or one factor only or no factors or more than two factors)

16 1, 2, 3, 4, 6, 8, 12, and 24 are the factors of ....
(8 or 12 or 24 or 36)

17 .... is the smallest odd prime number. (0 or 1 or 2 or 3)

18 4 x 6 = ... (6 + 6 + 6 + 6 or 6 x 6 x 6 x 6 or 4 + 4 + 4 + 4 or 4 x 4 x 4)

19 If **a** x 8 = 8 x 5, then **a** = ... (40 or 8 or 5 or 64)

20 The equation 18 = **b** x 3 represents the comparison " .... ".
(18 is 6 times b or 3 is 18 times b or 18 is 3 times b or b is 3 times 18)

21 If the perimeter of a square is **28** cm, then its area is .... cm^2.
(49 or 14 or 7 or 21)

22 Which of the following is a rule for the area of a rectangle? ....
(A = L x W or A = L x W x 2 or A = L + W or A = L + W + 2)

23 The **greatest common factor** of 24 and 36 is ....
(6 or 12 or 3 or 4)

24 If 48 = 6 x 8, then .... (48 is a multiple of 8 and 6 or 48 is a factor of 6 or 48 is the sum of 6 and 8 or 6 is a factor of 8)

25 A rectangle has a length of **8** cm and a width of **6** cm, so its perimeter is .... cm. (8 + 6 + 8 + 6 or 6 x 8 x 6 x 8 or 6 x 2 x 8 or 8 + 6 + 2)

26 A rectangle has a length of **9** cm and a width **one-third** its length, so its area is .... cm^2. (12 or 27 or 24 or 36)

27 8 + 8 + 8 + 8 + 8 = ... (8 x 8 or 5 + 8 or 8 + 8 or 8 x 5)

28 If **X** = 5 x 7, then .... (X equals 7 times 7 or X equals 5 times 7 or 7 equals X times 5 or X equals 5 times 5)

29 .... is a common multiple of 7 and 6. (12 or 16 or 42 or 36)

30 .... is an odd number that is a multiple of 7 and 5.
(70 or 49 or 35 or 25)

31 If the area of a square is **64** cm^2, then its perimeter is .... cm.
(8 or 16 or 32 or 64)

32 If a square has a perimeter of **16** cm, then its area is .... cm^2.
(16 or 60 or 64 or 32)

33 The equation that expresses " 12 equals 3 times m" is ....

(3 x m = 12 or m = 3 x 12 or 12 x m = 3 or m = 36 x 3)

34 200 x .... = 10,000 (5 or 50 or 500 or 5,000)

35 .... is an even number that is a multiple of 3 and 5.

(15 or 45 or 60 or 50)

36 .... is an even number and some of its factors are 9, 6, 3, 2.

(9 or 18 or 6 or 24)

37 Which of the following is a rule for the perimeter of a rectangle? ....

(P = L + w + 2 or P = (L x w) x 2 or P = (L x 2) + (w x 2) or P = (L x w) + 2)

38 The equation that expresses "28 equals 4 times n" is ....

(4 x n = 28 or 28 x n = 4 or 4 + n = 28 or 28 – n = 4)

39 8 x 500 = 40 x .... (5 or 100 or 10 or 1,000)

40 8 x 5 x 4 = (8 x 5) x 4 = ... x 4 (16 or 20 or 40 or 24)

41 18 is a multiple of 6 and .... (4 or 5 or 3 or 7)

42 60 x .... = 30,000 (5 or 50 or 500 or 5,000)

43 8 x 600 = 48 x .... (0 or 10 or 100 or 1,000)

44 If 7**a** = 21, then **a** = ... (3 or 6 or 12 or 27)

45 If the perimeter of a square is **20**, so its area is .... (9 or 36 or 25 or 40)

46 The **GCF** of 4 and 20 is .... (2 or 4 or 6 or 20)

47 .... is a multiple of 5. (45 or 51 or 72 or 36)

48 700 is equal to .... times 7. (10 or 100 or 1,000 or 70)

49 A rectangle whose length is **twice** its width and its width is **3** cm, then its area is .... cm^2. (18 or 9 or 33 or 12)

50 If the length of a rectangle is **8** cm and its width is **7** cm, then its area is .... cm^2. (15 or 32 or 56 or 78)

51 .... is a factor of 54. (7 or 6 or 11 or 24)

52 Which of the following numbers is a prime number? ....

(12 or 1 or 30 or 11)

53 Which of the following numbers is not a multiple 6 and 9? ....

(36 or 54 or 27 or 18)

54 The side length of a square is **7** cm, then its perimeter is .... cm.

(16 or 49 or 28 or 17)

55 .... is 3 times 9. (93 or 39 or 72 or 27)

56 The common factor of all numbers is .... (0 or 1 or 2 or 3)

57 Which of the following is not a factor of 20? .... (6 or 4 or 5 or 10)

58 Which of the following is not a multiple of 4? ....

(32 or 16 or 24 or 18)

59 50 is a multiple of .... (3 or 5 or 7 or 9)

60 6 x 2 x .... = 240 (3 or 4 or 20 or 12)

Second: Complete the following:

1 700 x 5 = ...

2 If the length of a rectangle is **9** cm and its width is **4** cm, then its area is .... cm^2.

3 30 x 20 = ...

4 The **greatest common factor** of 18 and 9 is ....

5 A square whose side length is 6 cm, then its perimeter is ....

6 .... is the only number that is both prime and even.

7 .... x 1,000 = 26,000

8 The common multiple of all numbers is ....

9 The .... number has two factors only.

10 The **greatest common factor** of 10 and 30 is ....

11 6 times 5 = ...

12 The perimeter of a square is **48** cm, so the length of its side is .... cm.

Revision

13 A rectangle whose length is **4 times** its width, if its width is **3** cm, then its length is .... cm.

14 If the area of a rectangle is **28** cm^2 and its length is **7** cm, then its width is .... cm.

15 (3 x 4) x 2 = ... x (4 x 2) = ...

16 A square has a perimeter of **8** m, then its area is .... m^2.

17 If a rectangle has a width of **3** cm and a length of **8** cm, then its area is .... cm^2.

18 The side length of a squared room is **5** meters, so its perimeter is .... meters.

19 34 x 0 = 27 x .... = 0

20 14 is equal to .... times 2.

21 35 x 21 = 21 x .... (...................... Property)

22 6 + 6 + 6 + 6 + 6 + 6 + 6 = ... X ....

23 .... is the neutral element in multiplication.

24 Find the missing dimension of the corresponding figure:

.... cm

3 cm

Area= 30 cm^2

25 The factors of 14 are ...., ..., ..., ...

26 The **smallest** two-digit prime number is ....

27 A rectangle has a length of **15** m and a width of **10** m, so its perimeter is .... m.

28 A square whose side length is **6** cm, then its perimeter is .... cm.

29 3 x 4 x 5 = 3 x ....

30 9 x 3 = ... + ... + ...

31 The prime numbers between 20 and 40 are ....

32 2 is a factor of a number if its Ones digit is ....

33 A square has a side length of **7** cm, then its area is .... cm^2.

34 If a rectangle has a length of **8** cm and a width of **3** cm, then its area is .... cm^2.

35 The equation that expresses the numerical sentence "36 is four times n" is ....

36 If 5 x = 35, then x = ...

37 Multiples of, 6 up to 20 are ....

38 .... is a prime number whose sum of factors is 8.

39 .... is the smallest odd prime number.

40 77 x 0 = 99 x .... = 0

41 25 x 52 = 52 x ....

42 A square has a perimeter of **36**, so its side length is .... cm.

43 A garden is in the form of a square, the side length of which is **10** meters, so its perimeter is .... m.

44 1, 3, 9, and 27 are factors of ....

45 A rectangle whose length is **6** cm and width is **4** cm, then its area is .... cm^2 .

46 16 equals .... times 2.

47 48 x 12 = 12 x ....

48 A square has an area of **36** cm^2, so the length of its side is .... cm.

49 6 + 6 + 6 + 6 + 6 = 5 x ....

50 .... is the number of factors of a **prime** number.

51 If a rectangle has a length of **8** cm and a width of **5** cm, then its perimeter is .... cm.

52 A square whose side length is **4** m, then its area is .... m^2.

53 .... is equal to 9 times 2.

54 80 x 500 = ...

55 A square has a perimeter of **16** m, then its area is .... m^2.

Third: Match:

a

1 .... is three times 5.	a 9
2 If a x 31 = 31 x 9, then a = ...	b 0
3 Omar drew a picture frame in the form of a rectangle, its length is 8 cm and its width is 6 cm, then the perimeter of the frame is .... cm.	c 15
4 35 x 0 = ...	d 28

b

1 The smallest even prime number is	a 100
2 A factor of 20 is	b 55
3 .... is a multiple of 11.	c 10
4 18 x .... = 1,800	d 2

c

1 A common multiple of 3 & 9 is	a 1
2 Maha saves 10 pounds from her pocket money every day. How much does she save in a week?	b 3
3 The common factor for all numbers is	c 70
4 .... is the smallest odd prime number.	d 9

d

1 The number of factors of 12 is .... factor(s).	a 20
2 A square whose side length is 5 cm, then its perimeter is .... cm.	b 6
3 The multiplicative neutral element is	c 18
4 The area of a carpet in the shape of a rectangle is 20 m^2, If its width is 4 m, then its perimeter is .... m.	d 1

Fourth: Put (✓) or (✗):

1. If 20 = b x 4, then b = 16. ( )
2. 60 x 40 > 1,600 ( )
3. 4 x 3,000 = 4 x 3 x 100 ( )
4. The common factor of all numbers is 1. ( )
5. The **greatest common factor** of 20 and 30 is 4. ( )
6. Factors of 20 are 1, 2, 5, and 10 only. ( )
7. The common multiple of all numbers is 1. ( )
8. Factors of 10 are 2, 5, and 10 only. ( )
9. If 4 x **b** = 28, then 7 = **b**. ( )
10. The **greatest common factor** of 44 and 22 is 4. ( )
11. 6 times 5 = 25. ( )
12. 2 is an even number. ( )
13. The common factor of all numbers is zero. ( )
14. The multiplication equation that expresses 5 + 5 + 5 is 15 = 5 x 5. ( )
15. 2 is a factor of 6. ( )
16. Area of the rectangle (A) = length (L) + width (W) ( )
17. Perimeter of the rectangle (P) = length (L) + width (W) x 2 ( )
18. 6 is one of the factors of 2. ( )
19. A square whose area is **64** cm^2, then its perimeter is **32** cm. ( )
20. A rectangle whose width is **20** cm and its length is **twice** its width, then its area is 800 cm^2. ( )

Fifth: Essay Questions:

1 Write down the common factors of 12 and 18, and find the greatest common factor (GCF).

....

....

2 Maryam ran around the soccer field **4 times** and Aya ran around the field **twice** as many times as Maryam.

How many times did Aya run around the field?

....

....

3 Write down all the factors of 24 and determine whether it is a prime or composite number.

....

....

4 Find the greatest common factor of 30 and 45.

....

....

5 A square-shaped room, one side of which is 4 meters long, what is the floor area of the room in square metres?

....

....

6 A piece of land in the form of a rectangle whose width is 9 meters and its length is **three times** its width. Find its length.

....

....

7 A hotel has 30 floors. The hotel has **5 times** as many floors as the building next to it, how many floors does the building next door have?

....

....

8 If the number of boxes of apples in a fruit truck is **3 times** the number of boxes of oranges and there are **27** boxes of apples, how many boxes of oranges will there be?

....

....

9 Ayman ate **4** figs in the morning, and his older brother ate **3 times** that number. How many figs did his brother eat?

....

....

10 A rectangular gymnasium is **7** meters long and **4** meters wide. Find its perimeter.

....

....

11 If a box of candy contains **15** pieces, then the number of candy pieces in **10** identical boxes is **120** pieces. Do you agree or not? Explain your answer.

....

....

12 Find the greatest common factor of **25** and **35**.

....

....

13 A square-shaped image has a side length of **8** cm. If Hassan wants to make a piece of glass to cover this image, what is the area of the glass piece?

....

....

14 A carpet in the shape of a rectangle is **20** square meters by **4** meters wide. Find the perimeter of the carpet.

....

....

Guide Answers

Mathematics Exercises for November Syllabus

First

1. 0
2. 200
3. 7
4. (6 x 5) + (6 x 30)
5. 6
6. 3
7. 32
8. (L + W) x 2
9. 1, 2, 4, 8, 16
10. 60
11. 9
12. 10 x 10
13. 6 cm, 4 cm
14. 24
15. two factors only
16. 24
17. 3
18. 6 + 6 + 6 + 6
19. 5
20. 18 is 3 times b
21. 49
22. A = L x W
23. 12
24. 48 is a multiple of 8 and 6
25. 8 + 6 + 8 + 6
26. 27
27. 5 x 8
28. X equals 5 times 7
29. 42
30. 35
31. 32
32. 16
33. 3 x m = 12
34. 50
35. 60
36. 18
37. P =(L X 2) + (W X 2)
38. 4 X n = 28
39. 100
40. 40
41. 3
42. 500
43. 100
44. 3
45. 25
46. 4
47. 45
48. 100
49. 18
50. 56
51. 6
52. 11
53. 27
54. 28
55. 27
56. 1
57. 6
58. 18
59. 5
60. 20

Second

1. 3,500
2. 36
3. 600
4. 9
5. 24 cm
6. 2
7. 26
8. 0
9. prime
10. 10
11. 30
12. 12
13. 12
14. 4
15. 3, 24
16. 4
17. 24
18. 20
19. 0
20. 7
21. 35, Commutative
22. 7 x 6
23. 1
24. 10
25. 1, 2, 7, 14
26. 11
27. 50
28. 24
29. 20
30. 9 + 9 + 9
31. 23, 29, 31, 37
32. 0, 2, 4, 6, 8 (even number)
33. 49
34. 24
35. n x 4 = 36
36. 7
37. 0, 6, 12, 18
38. 7
39. 3
40. 0
41. 25
42. 9
43. 40
44. 27
45. 24
46. 48
47. 48
48. 6
49. 6
50. 2
51. 26
52. 16
53. 18
54. 40,000
55. 16

Third

a
- 1 → c
- 2 → a
- 3 → d
- 4 → b

b
- 1 → d
- 2 → c
- 3 → b
- 4 → a

c
- 1 → d
- 2 → c
- 3 → a
- 4 → b

d
- 1 → b
- 2 → a
- 3 → d
- 4 → c

Fourth

1. ✗
2. ✓
3. ✗
4. ✓
5. ✗
6. ✗
7. ✗
8. ✗
9. ✓
10. ✗
11. ✗
12. ✓
13. ✗
14. ✗
15. ✓
16. ✗
17. ✗
18. ✗
19. ✓
20. ✓

Fifth

1. The factors are 1, 2, 3, 6
   and the greatest common factor (GCF) is 6.
2. 4 x 2 = 8
3. 1, 2, 3, 4, 6, 8, 12 and 24, composite numbers
4. 15
5. 4 x 4 = 16 m^2
6. 3 x 9 = 27 m
7. 30 ÷ 5 = 6 floors
8. 27 ÷ 3 = 9 boxes
9. 4 x 3 = 12 figs
10. P = (7 + 4) x 2 = 22 m
11. 10 x 15 = 150 pieces
    I disagree because it is 150, not 120.
12. 5
13. 8 x 8 = 64 cm^2
14. Length: 20 ÷ 4 = 5 m
    P = (5 + 4) x 2 = 18

Test (1)

1 Complete the following:

1. The perimeter of the square whose side length is 6 cm = ... cm.
2. The length of the rectangle whose area is 54 square centimeters and whose width is 6 centimeters = ... cm.
3. The number .... equals 10 times the number 8
4. If 3 x y = 24 , then y = ...

2 Choose the correct answer:

1. 6 times the number 4 equals ....
   a) 14 b) 24 c) 20 d) 10
2. Which of the following is a prime number?
   a) 14 b) 15 c) 17 d) 21
3. The factors 1, 2, 3, 6 are of the number ....
   a) 12 b) 18 c) 6 d) 24
4. A rectangle has a perimeter of 20 cm and a length of 7 cm, so its area = ... square centimeters.
   a) 140 b) 21 c) 91 d) 60

3 Match the equal products:

100 – (4 × 1)	9 + 9 + 9 + 9	6 tens
100 – (8 × 8)	5 × 12	8 × 12
72 – (3 × 4)	(6 × 10) + (4 × 9)	3 × 12

4 Compare by using (<), (>) or (=):

1. The perimeter of a square with a side length of 8 cm. ◯ The perimeter of a rectangle whose length is 9 cm and width is 7 cm.
2. The area of a square whose perimeter is 28 cm. ◯ The area of a rectangle whose width is 5 cm and whose length is twice as its width.

5 The number of students in a class is between 30 and 40. This number is a multiple of 2 and a multiple of 3 at the same time. How many students are in this class?

....

Test (2)

1 First: Complete the following and mention the property used:

a (7 × ....) × 5 = 7 × (............... × 5) = 70 (........................ property)

b 136 + 164 = 164 + ... = ... (........................ property)

Second: Find the value of the unknown in each of the following equations if:

a Y × 5 = 35
Y = ...

b 4 × K = 32
K = ...

c R × 18 = 1,800
R =

2 Choose the correct answer:

1 All the following are prime numbers except:

a 2 b 3 c 15 d 17

2 The numbers of factors of the digit 8 equals:

a 2 b 3 c 4 d 6

3 If: (7 x 400) + (7 x 50) + (7 x 3) = k x (400 + 50 + 3), then k = ...

a 5 b 6 c 7 d 8

3 Put a (✓) for the correct statement and a (✗) for the incorrect statement:

1 The multiplication equation that expresses 9 + 9 + 9 + 9 is 9 x 9 (   )

2 Multiplication is a commutative process. (   )

3 All the numbers 1, 2, 3, 7, 11 are prime numbers. (   )

4 Compare by using (<), (>) or (=):

a 5 × 60 ◯ 3 × 1,000 b 120 × 4 ◯ 96 × 5

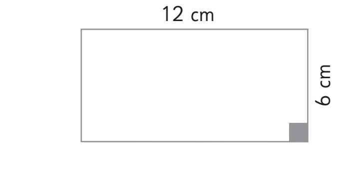
c 7 × 500 ◯ 6 × 650 d 100 × 7 ◯ 340 × 2

5 A square plot of land whose area is equal to a rectangular plot of land whose dimensions are 100 meters and 36 meters. What is the perimeter of the square plot of land?

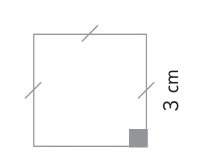
....

Test (3)

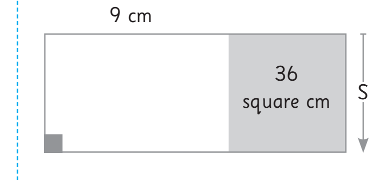
1 Find the perimeter and the area of each of the following figures:



Perimeter = ... = ... cm
Area = ... = ... square cm



Perimeter = ... = ... cm
Area = ... = ... square cm



S = ... cm, perimeter = ... cm
Area = ... square cm

2 Choose the correct answer:

1. The number .... is a multiple of the number 6.
 a 16 b 26 c 36 d 63
2. The smallest prime number is ....
 a 0 b 1 c 2 d 3
3. .... + 246 = 315 + 246
 a 513 b 135 c 351 d 315

3 Compare by using (<), (>) or (=):

a 6 × 300 ◯ 9 × 200 b 24 × 100 ◯ 3 × 800

c 42 × 100 ◯ 7 × 80 d 93 × 100 ◯ 693 × 10

4 **Complete the following:**

1. The Greatest Common Factor of 30 , 50 is ....
2. Any number can be a multiple of 5 if its ones digit is .... or ....
3. 24 tens = ...
4. .... x 7 = 7 + 7 + 7 + 7 + 7

5 **Amal bought a box of biscuits of 3 layers. Each layer has 4 rows and 3 columns. How many biscuits are in the box?**

....

....

....

....

Test (4)

1 **Complete the following:**

1. (G.C.F) of 45 , 15 is ....
2. The factors of the number 24 are ....
3. 5 times the number 15 equals ....

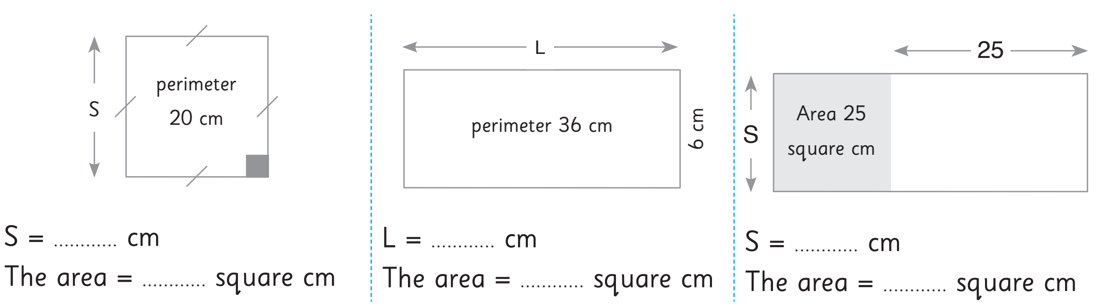
2 **Put a (✓) for the correct statement and a (✗) for the incorrect statement:**

1. All the prime numbers are odd numbers. (   )
2. When the order of factors in a multiplication process changes, the product of multiplication changes. (   )
3. The number 24 is a multiple of 6. (   )

3 **Choose the correct answer:**

1. The perimeter of a square whose side length is 6 cm. ◯ The perimeter of a rectangle whose width is 8 cm and length is 9 cm.
   - a $=$
   - b $<$
   - c $>$
2. If 8 x B = 400, then B = ...
   - a 392
   - b 5
   - c 50
   - d 500
3. The prime number whose sum of factors is 8 is ....
   - a 17
   - b 7
   - c 35
   - d 15

4 Find the lengths of the unknown sides then calculate the area:



S = ... cm
The area = ... square cm

L = ... cm
The area = ... square cm

S = ... cm
The area = ... square cm

5 The football team surrounded a part of the pitch with ropes to play football. If the area required for this part is 115 meters long and 65 meters wide, what is the length of the rope needed to surround this part?

....

Test (5)

1 Complete the following:

(a) 8,000 = 8 × .... = 80 × .... = 800 × ....

(b) 9 × 8 × 10 = (9 × 8) × .... = ... × .... = ...

(c) 300 × 4 = 4 × .... = ...

2 Choose the correct answer:

(1) 3 times the number .... equals 24

(a) 6 (b) 7 (c) 8 (d) 9

(2) The opposite bar chart represents

5	5	5	5	5	5	5

(a) 7 + 5 (b) 7 × 5
(c) 53 (d) 30

(3) The number of factors of 49 equals ....

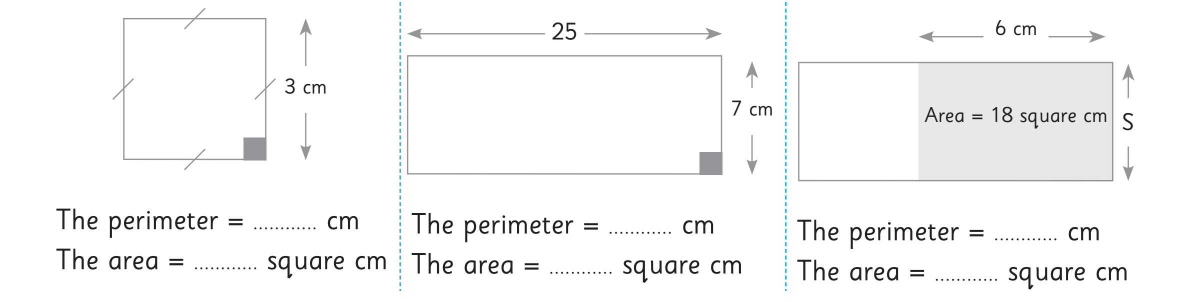
(a) 2 (b) 3 (c) 4 (d) 57



3 **A school trip of 42 boys and 30 girls. The trip supervisor divided the students into groups of boys and groups of girls. What is the greatest number of groups that can be formed so that each group will have the same number of students?**

- What is the number that will be in each group of boys?
- What is the number that will be in each group of girls?

4 **Find the perimeter and the area of each of the following figures:**



5 **If the speed of a passenger plane is 100 times the speed of a car, and if the car is doing 75 kilometers an hour, what is the speed of the plane?**

....

Answers

Test 1

1 ① 24 ② 9 ③ 80 ④ 8

2 ① b ② c ③ c ④ b

3 100 – (4 × 1) = (6 × 10) + (4 × 9) = 8 × 12

100 – (8 × 8) = 9 + 9 + 9 + 9 = 3 × 12

72 – (3 × 4) = 5 × 12 = 6 tens

4 ① = ② <

5 36

Test 2

1 **First:** ⓐ (7 x 2) x 5 = 7 x (2 x 5) = 70 (associative property)

ⓑ 136 (commutative property)

Second: ⓐ Y = 7 ⓑ K = 8 ⓒ R = 100

2 ① c ② c ③ c

3 ① ✗ ② ✓ ③ ✗

4 ⓐ < ⓑ = ⓒ < ⓓ >

5 The perimeter of the square plot of land = (10 x 6) x 4 = 240 meters

Test 3

1 The perimeter = 36 cm, The area = 72 square cm

The perimeter = 12 cm, The area = 9 square cm

S = 6 cm, The perimeter = 42 cm, The area = 90 square cm

2 ① c ② c ③ d

3 ⓐ = ⓑ = ⓒ > ⓓ >

4 ① 10 ② 0 or 5 ③ 240 ④ 5

Test 4

1. (1) 15 (2) 1, 2, 3, 4, 6, 8, 12, 24 (3) 75
2. (1) ✗ (2) ✗ (3) ✓
3. (1) c (2) c (3) b
4. S = 5 cm, The area = 25
   L = 12 cm, The area = 72 square cm
   S = 5 cm, The area = 150 square cm
5. The length of the rope = 360 meters

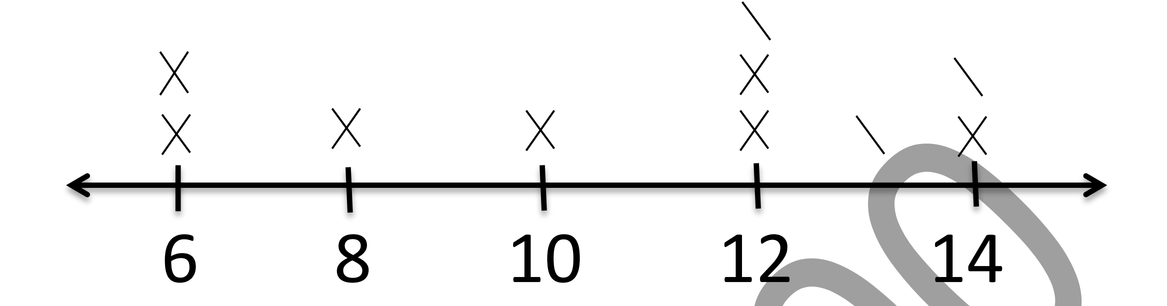
Test 5

1. (a) $8 \times 1{,}000 = 80 \times 100 = 800 \times 10$
   (b) $(9 \times 8) \times 10 = 72 \times 10 = 720$
   (c) $4 \times 300 = 1{,}200$
2. (1) c (2) b (3) b
3. The greatest number of groups is 6
   The number of boys in each group = 7
   The number of girls in each group = 5
4. The perimeter = 12 cm, The area = 9 square cm
   The perimeter = 64 cm, The area = 175 square cm
   S = 3 cm, The perimeter = 24 cm, The area = 27 square cm
5. The speed of the plane = 7,500 kilometers an hour.

Lesson 7

Use the line plots to answer the questions:

Ages of children in the training



Key: each x=2 students

a) What does this line plots show?

b) What is the scale for this line plots?

c) How many children in the training are 12 years old?

d) How many children in the training are 6 and 8 years old?

Complete the triangle of division and multiplication facts:

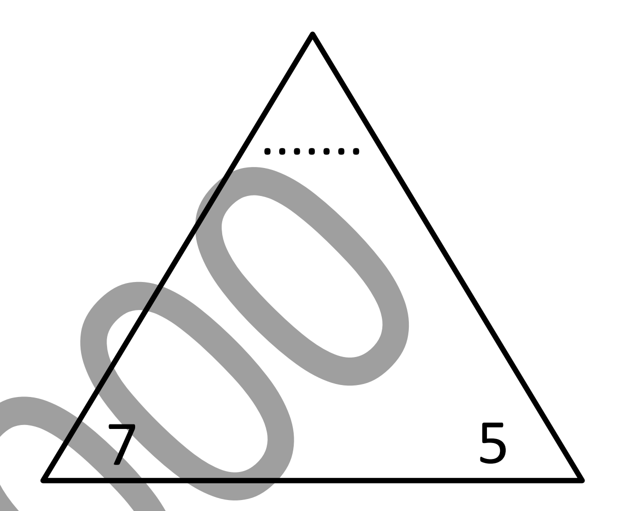
(1)

.......×.......=.........

.......×.......=.........

.......÷.......=.........

.......÷.......=.........



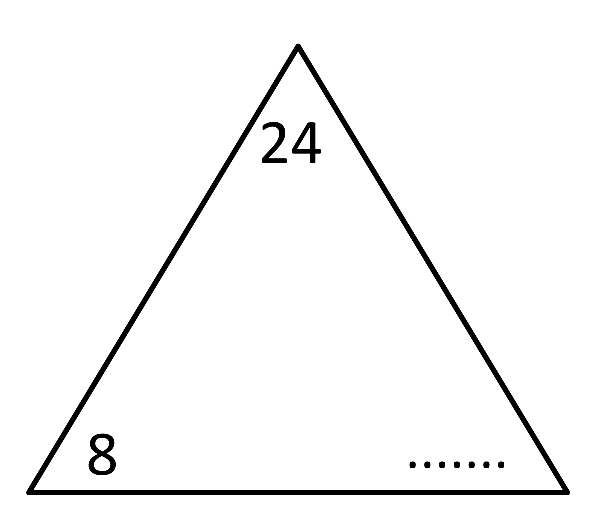
(2)

.......×.......=.........

.......×.......=.........

.......÷.......=.........

.......÷.......=.........



Lesson 8

(1) Asmaa bought potatoes weight 2 kg and 950 g. her onions weighted 1,920 grams less than the potatoes. How much did the potatoes and onions weight togther?

....

....

2) Hanaa is measuring two ant lines. Colony A ant line is 30 cm. and colony B ant line is 500 mm. long .How many cm. long are the two ant lines together ?

....

....

Lesson 9

3) Ahmed has a 16 meter long piece of wood. He wants to cut it into 4 equal pieces in length.
How long each piece be in meters?

....

....

4) Jody travelled 8 days cotinously .she travelled 5000 m. eachday , How many km. did she walk in all ?

....

....

Unit 4

Lesson 1

Find the perimeter of each of the following:

(1)

5 cm

3cm

The perimeter=……………………………………………………………

(2)

4 cm

4 cm

The perimeter= …………………………………………………………

(3)

6 cm

2 cm

The perimeter=……………………………………………………………

(4)

50 mm

50 mm

35 mm

The perimeter= ……………………………………………………………

Lesson 2

Find the area of each of the following:

(1)

2m

4m

The area =……………………………………………………………

(2)

9 mm

9 mm

The area =……………………………………………………………

(3)

7 cm

1 cm

The area =…………………………………………………………………

(4)

8 m

8 m

The area =…………………………………………………………………

Lesson 3

Find the missing side in each of the following:

(1)

6 mm

Perimeter= 18mm ....

....

(2)

....

Perimeter= 24cm 4 cm

....

(3)

11m

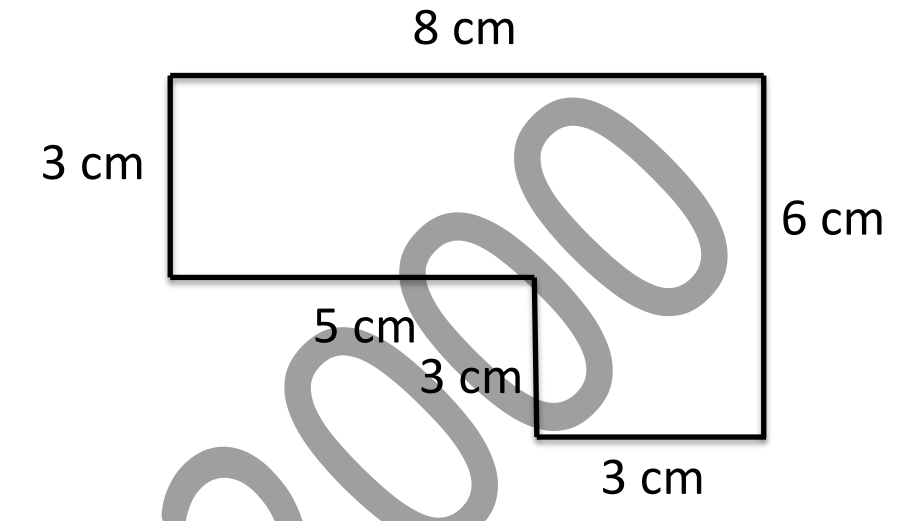
Area =$77m^2$ ....

....

Lesson 4

Find the area and the perimeter of each of the following:

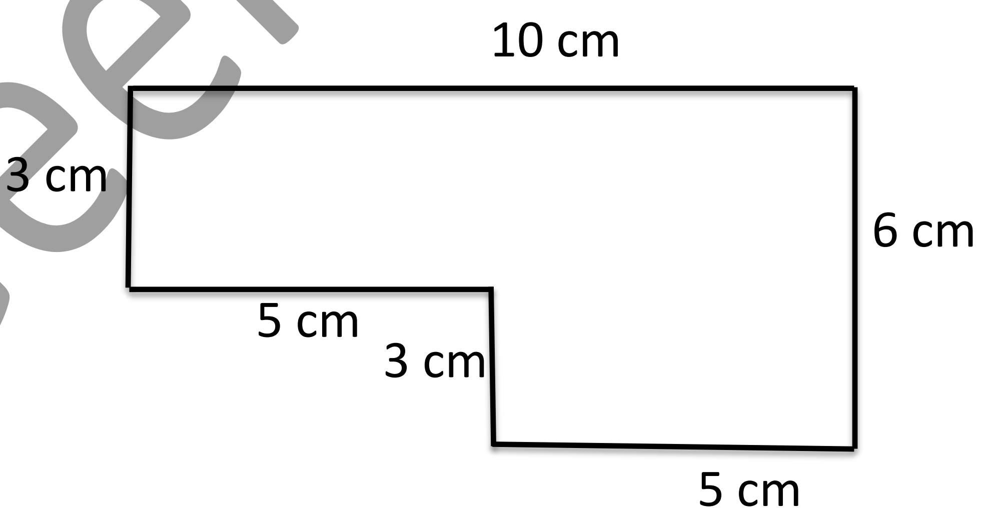
(1)



Perimeter =…………………………………………………………

Area =………………………………………………………………

(1)

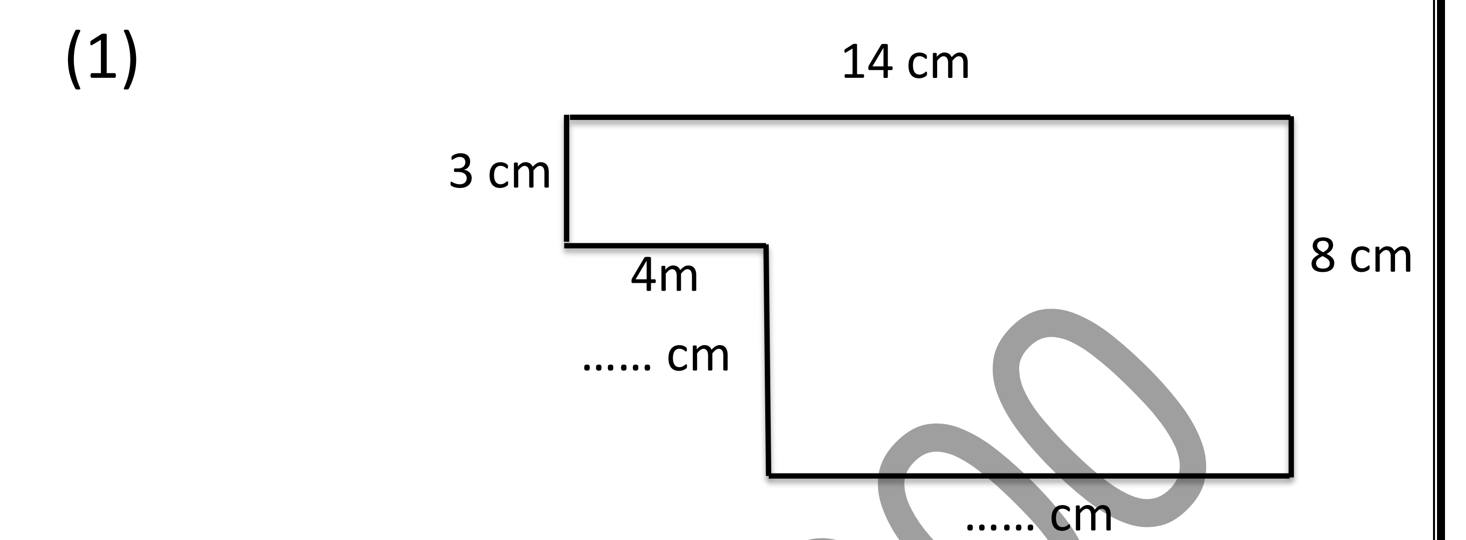


Perimeter=……………………………………………………

Area =……………………………………………………………

Calculate the area and the perimeter:

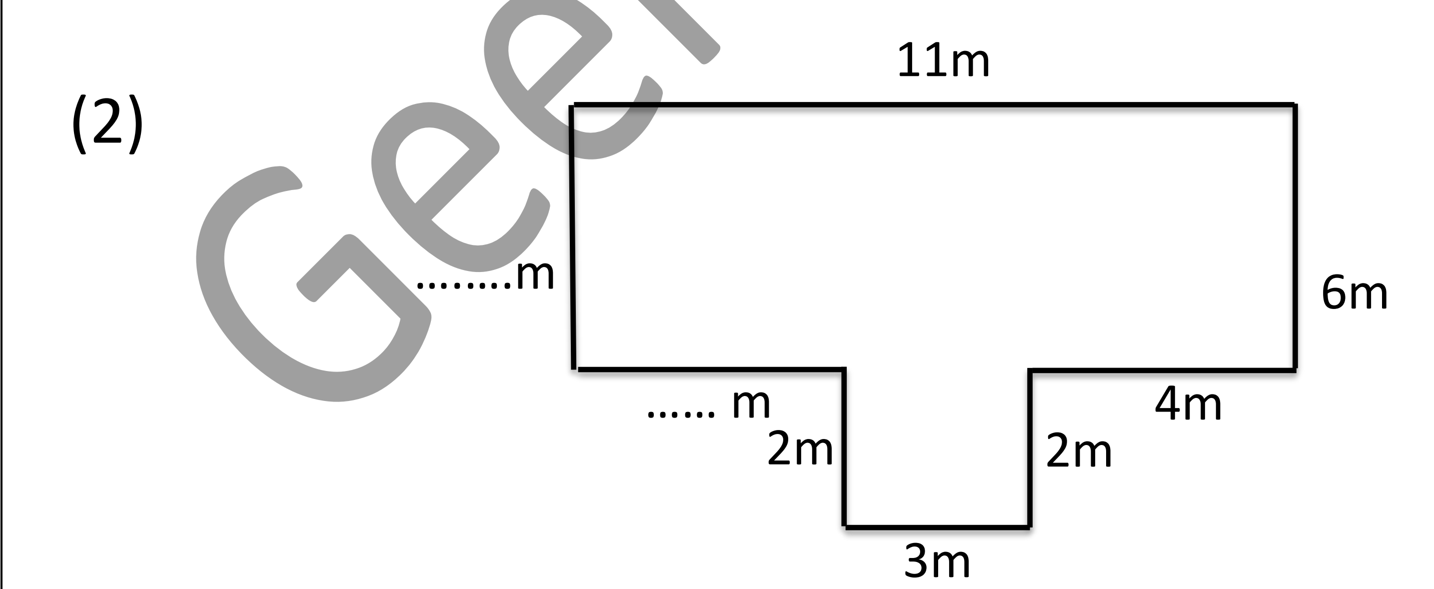
(1)



The perimeter= ....

The area= ....

(2)

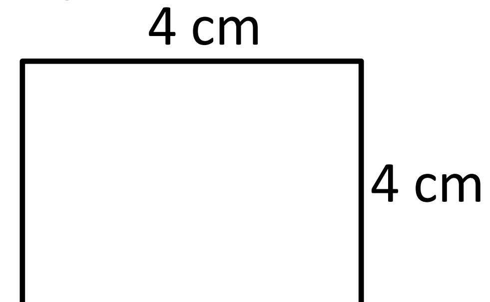


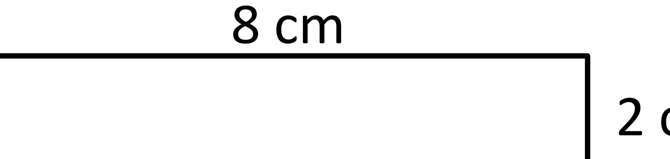
The perimeter=...

The area=..

Lesson 5

(3) Merge these to figures and then find the perimeter and the area:

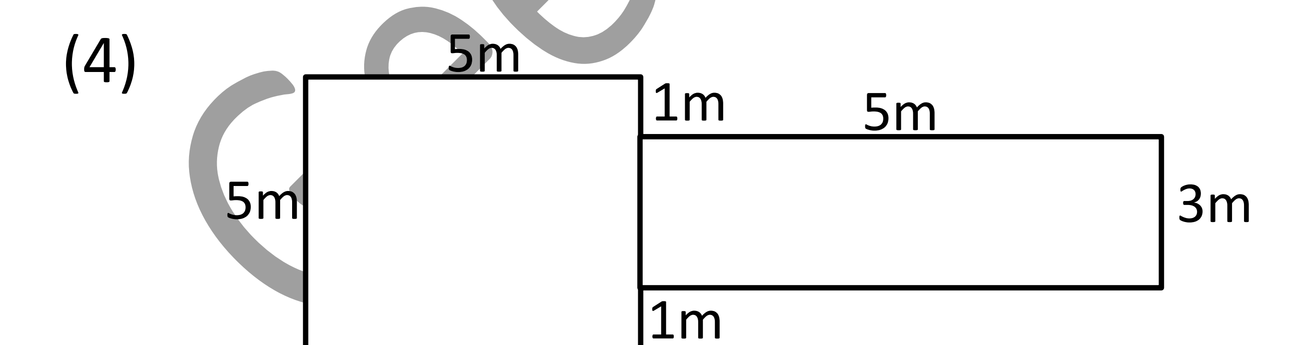




The perimeter=...

The area=...

(4)



The perimeter=...

The area=...

(1) A rectangle its length is 5cm and its width is 4cm, Draw this rectangle and find its perimeter and its area?

The area=……………………………………………………

The perimeter=………………………………………………

(2)

……. units

4 units

Area=32 square units

What is unknown about this rectangle?

……………………………………………………………………

What is known about this rectangle?

……………………………………………………………………

Choose the correct answer:

(1) The perimeter of square of side length is 3 cm =.............................

a) 9cm b) 12cm c) 15cm

(2) The area of the square= ....

a) L×L b) 4×L C) L×W

(3) The perimeter of the square= ....

a) L×L b) 4×L C) L×W

(4) The area of the square of side length is 7 m =.......................

a) 48sqm b) 32sqm C) 49sqm

(5) The perimeter of a rectangle=...............

a) L×L b) 4×L C) L×W

(6) The side length of a square of perimeter is 36cm=......................

a) 5cm b) 6cm s C) 7cm

(7)the perimeter of a square of side length 8m=......

a) 16m b) 24m C) 32m

Unit5
lesson 1

Complete:

(1) Compare between 10 and 2.
10 is ………………..times 2.

(2) Compare between 18 and 6.
18 is ………………..times 6.

(3) Compare between 20 and 5.
20 is ………………..times 5.

(4) Compare between 14 and 7.
14 is ………………..times 7.

(5) Compare between 64 and 8.
64 is ………………..times 8.

(6) Compare between 16 and 4.
16 is ………………..times 4.

(7) Compare between 27 and 9.
27 is ………………..times 9.

(8) Compare between 40 and 5.
40 is ………………..times 5.

Lesson 2

Rewrite each equation using multiplication:

(1) $3 + 3 + 3 =$……×……..

(2) $2 + 2 + 2 + 2 + 2 =$…….×………

(3) $5 + 5 + 5 + 5 =$………×……..

(4) $6 + 6 + 6 + 6 + 6 =$…….×……..

(5) $7 + 7 + 7 =$…….×…….

(6) $9 + 9 + 9 + 9 + 9 =$………×…….

(7) $8 + 8 + 8 + 8 + 8 =$………×…….

(8) $4 + 4 + 4 + 4 + 4 + 4 =$………×………

Fill in the plank to complete the multiplicative comparison statement:

(1)

4	4	4	4

…………is…………times 4.

(2)

2	2	2

…………is…………times 2.

Lesson 3

Write the equation and the solution for each of the following:

(1) A number is equal to 8 times 4.

Equation :...

Solution :..

(2) A number is equal to 3 times 5.

Equation :...

Solution :..

(3) A number is equal to 4 times 6.

Equation :...

Solution :..

(4) A number is equal to 6 times 7.

Equation :...

Solution :..

(5) A number is equal to 4 times 2.

Equation :...

Solution :..

Lesson 4

Complete by using the commutative property:

(1) $3 \times 20 = \dots\dots\dots \times 3$

(2) $13 \times 5 = \dots\dots\dots \times 13$

(3) $23 \times 9 = 9 \times \dots\dots\dots$

(4) $7 \times 12 = 12 \times \dots\dots\dots$

Use the commutative property to find the unknown number:

(1) $8 \times 11 = 11 \times a$

Then a = ...

(2) $20 \times 17 = b \times 20$

Then b = ...

(3) $10 \times 11 = c \times 10$

Then c = ...

(4) $19 \times 32 = 32 \times d$

Then d = ...

Lesson 5

Complete:

(1) $2 \times 100 =$ ....

(2) $6 \times 1{,}000 =$ ....

(3) .... $\times 9 = 9{,}000$

(4) .... $\times 7 = 700$

(5) $3 \times$ .... $= 3{,}000$

(6) $4 \times$ .... $= 400$

(7) $1{,}000 \times$ .... $= 0$

(8) $1 \times$ ....$= 130$

(9) $453 \times$ .... $= 453$

(10) $17 \times$ .... $= 0$

(11) .... $\times 0 = 0$

(12) $16 \times$ .... $= 1{,}600$

(13) $18 \times$ .... $= 180$

(14) $1{,}000 \times 8 =$ ....

(15) $1{,}000 \times$ .... $= 5{,}000$

Lesson 6

Solve each of the following:

(1) 2 × 3,000 = ...

(2) 5 × 2,000 = ...

(3) 4 × 3,000 = ...

(4) 6 × 100 = ...

(5) 3 × 600 = ...

(6) 5 × .... = 3,000

(7) .... × 700 = 2,100

(8) 7 × 5,000 = ...

(9) 6 × 600 = ...

(10) 900 × .... = 0

(11) 2 × .... = 4,000

(12) 4 × .... = 1,200

(13) 13 × .... = 13,000

(14) 8 × .... = 800

(15) 300 × 8 = ...

Lesson 7

Applying the associative property to find:

(1)(2 × 4) × 5 = …….. × ……….. = …………

(2)(5 × 2) × 6 = …….. × ……….. = …………

(3)(2 × 3) × 8 = …….. × ……….. = …………

(4)(2 × 2) × 9 = …….. × ……….. = …………

(5)(10 × 3) × 4 = …….. × ……….. = …………

(6)(3 × 4) × 2 = …….. × ……….. = …………

(7)(2 × 5) × 5 = …….. × ……….. = …………

(8)(3 × 3) × 8 = …….. × ……….. = …………

(9)(10 × 4) × 4 = …….. × ……….. = …………

(10) (4 × 5) × 6 = …….. × ……….. = …………

(11) (5 × 2) × 7 = …….. × ……….. = …………

(12) (2 × 1) × 9 = …….. × ……….. = …………

(13) (0 × 4) × 51 = …….. × ……….. = …………

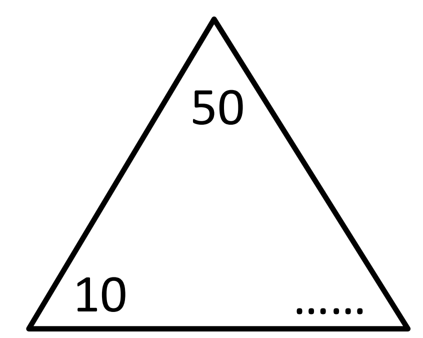
(14) (3 × 2) × 11 = …….. × ……….. = …………

(15) (3 × 4) × 2 = …….. × ……….. = …………

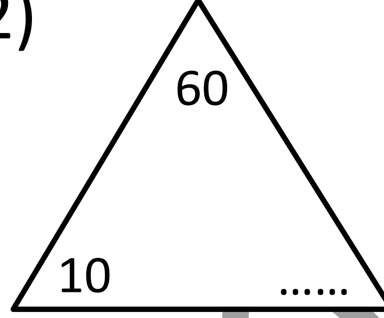
Lesson 8

Find the missing number:

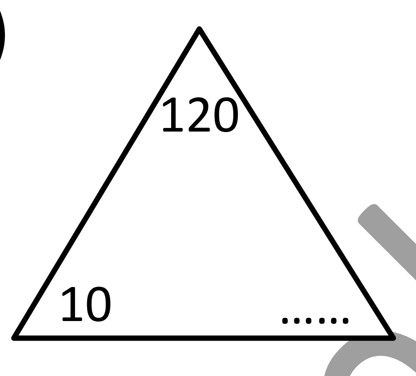
(1)



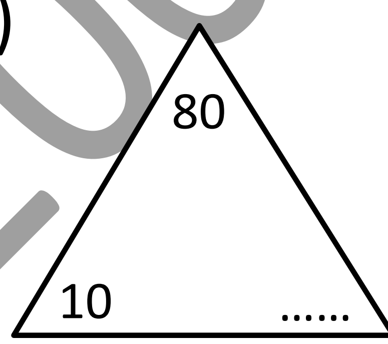
(2)



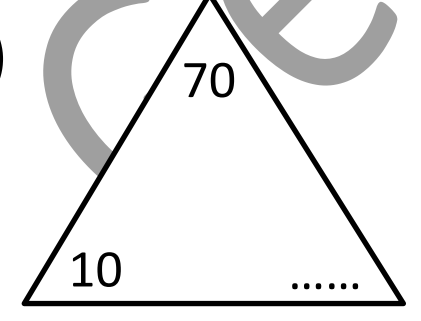
(3)



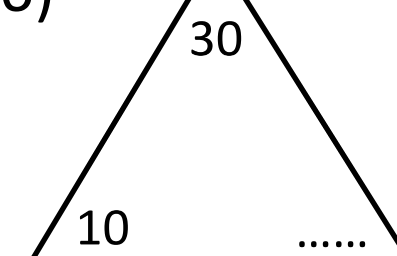
(4)



(5)



(6)



Unit 6
Lesson 1

Circle the factors of the following number:

(1) 16 (3 , 4 , 5)

(2) 12 (3 , 5 , 7)

(3) 21 (8 , 9 , 7)

(4) 10 (3 , 4 , 2)

(5) 25 (5 , 7 , 4)

(6) 6 (3 , 4 , 2)

(7) 36 (4 , 6 , 7)

(8) 24 (4 , 9 , 3)

(9) 14 (3 , 2 , 9)

(10) 27 (3 , 9 , 5)

(11) 32 (5 , 4 , 9)

(12) 20 (5 , 3 , 4)

(13) 48 (3 , 5 , 6)

(14) 72 (8 , 9 , 5)

(15) 64 (9 , 5 , 8)

Lesson 2

Complete the following table:

Number	Factors	Prime or composite number
20	....	....
3	....	....
15	....	....
11	....	....
13	....	....
25	....	....
32	....	....

Lesson 3

Find the greatest common factor of each of the following numbers:

(1) Factors of the number 15 are: ………………………………
Factors of the number 25 are: ………………………………
The common factors are: …………………………………….
The greatest common factors is: ……………………………

(2) Factors of the number 35 are: ………………………………
Factors of the number 21 are: ………………………………
The common factors are: …………………………………….
The greatest common factors is: ……………………………

(3) Factors of the number 16 are: ………………………………
Factors of the number 12 are: ………………………………
The common factors are: …………………………………….
The greatest common factors is: ……………………………

(4) Factors of the number 30 are: ………………………………
Factors of the number 70 are: ………………………………
The common factors are: …………………………………….
The greatest common factors is: ……………………………

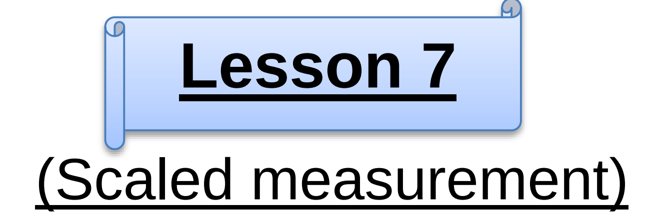
Lesson 4

Color the multiples of 5 with red color.

Color the multiples of 4 with green color.

Color the multiples of 3 with orange color.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100





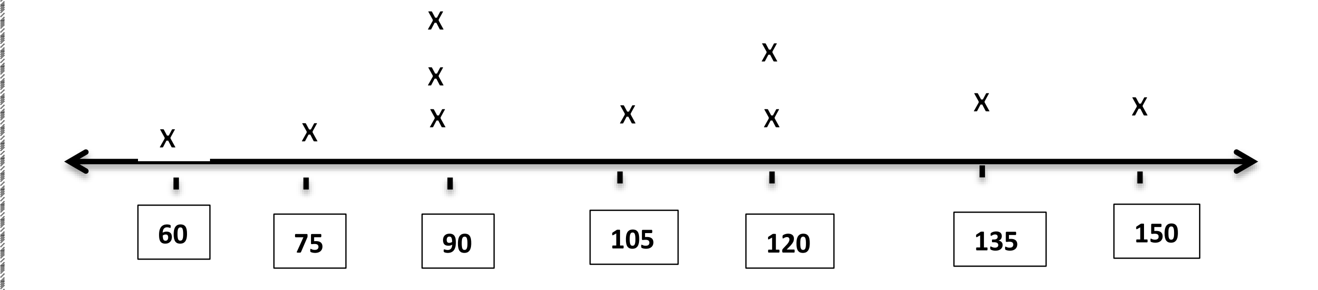
(Scaled measurement)

Point's representation chart

Example:-

Number of minutes

X= two students



❖ What is the scale of the numbers line?

❖ What is the least time which students spend it in studying?

❖ What is the most time which students spend it in studying?

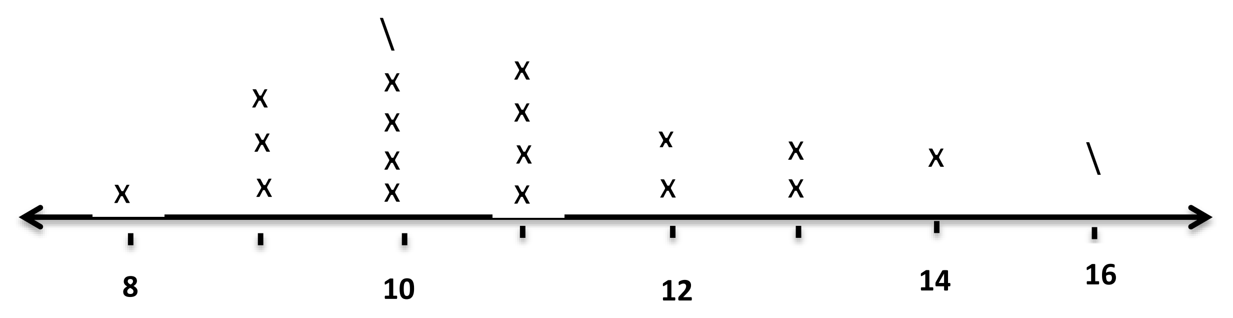


Example 2:-

10 jumps time



X= two students



What does the symbol X represent?

How many students participated in the jump?

What is the scale of the numbers line?

a) The most number of students at ……………

b) The least number of students at …………..

c) Number of students at 11 is ………………….

Lesson 8



(Measuring the world around me 1)

Using addition and subtraction to solve measurement problems.

In the colony (A), ants collect 950 grams of food. If the ants consume 25 grams of food on Monday and 37grams of food on Tuesday, How many grams of food are left?



Aya bought potatoes weighing two kilograms and 950 grams and she bought an onion that weighed 1075 grams less than the weight of potatoes. What is the weight of potatoes and onions together?

A fish tank with a capacity of 100 liters and 20000 milliliters of water poured into it. How many liters of water should be used to fill the tank completely?



Rania measures two rows of ants the length of row of ants of the colony (A) is 30 centimeters, and the length of row of ants of the colony (B) is 500 milliliters. How long are the two rows of ants together in centimeters?

Taher's height increased by 10 centimeters in one year. It is now 1 meter 6 centimeters long. How tall is Taher in centimeters 1 year ago?

Lesson 9

(Measuring the world around me 2)



Using multiplication and division to solve measurement problems.

Ahmed has a 12 meter long piece of wood that he wants to cut into 3 equal lengths. How long should each piece be in meters? What is the length of each piece in centimeters?

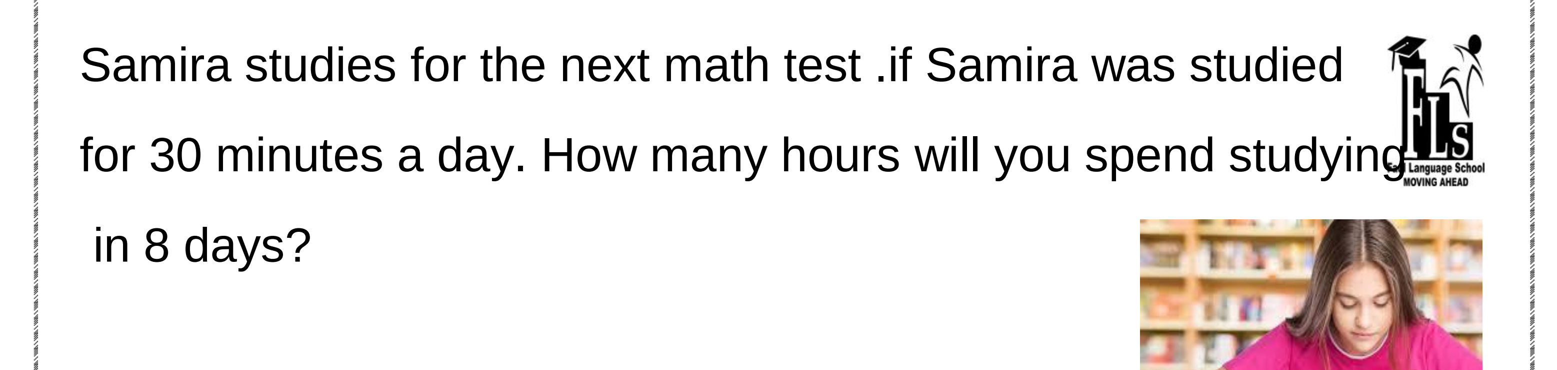


Sarah walked 5,000 meters every day for 9 days.

What is the total number of kilometers she had walked?



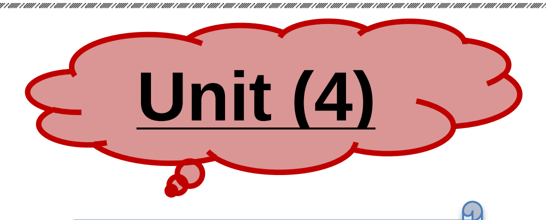
Samira studies for the next math test .if Samira was studied for 30 minutes a day. How many hours will you spend studying in 8 days?



An ant can walk up to 5 km per day. If the ant continues to walk for 20 days, how far will it walk in meters?

Ants walk about 5000 meters every day. How many kilometers do ants walk in 6 days?

Ahmed is practicing swimming. He spends half an hour every day swimming. What is the total minutes spent by Ahmed swimming in 5 days?

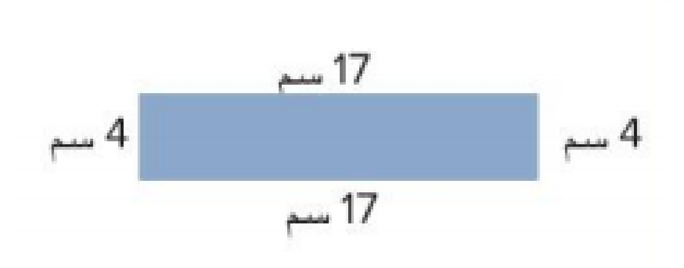


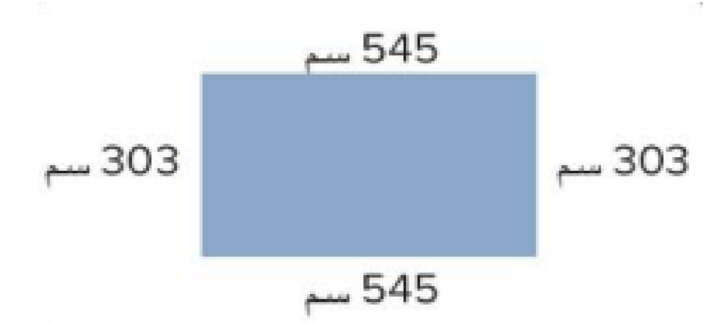


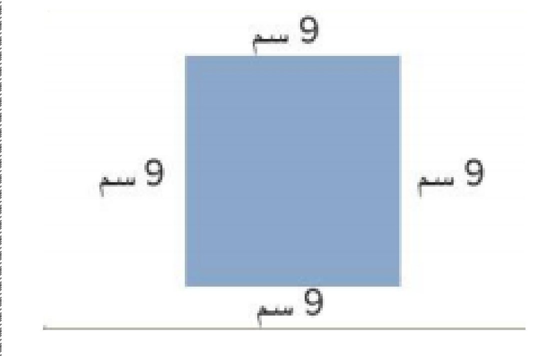


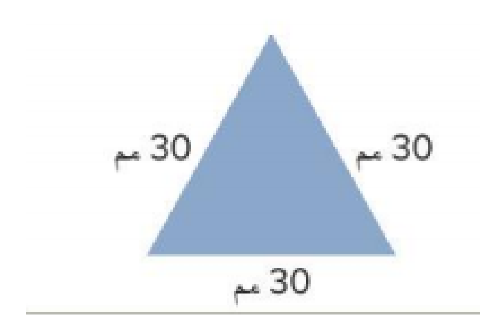
(Marching Ants)

1) Find the perimeter of the shapes:-

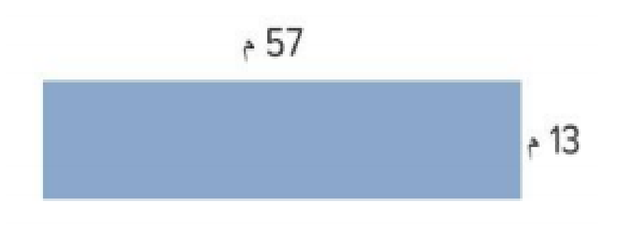






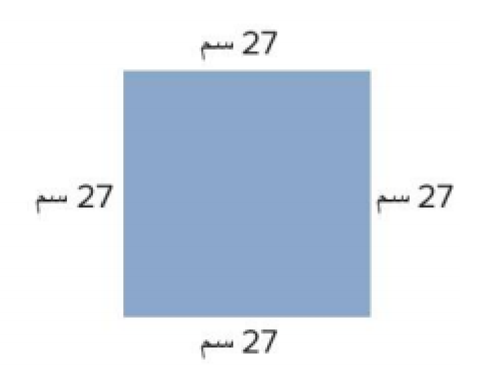


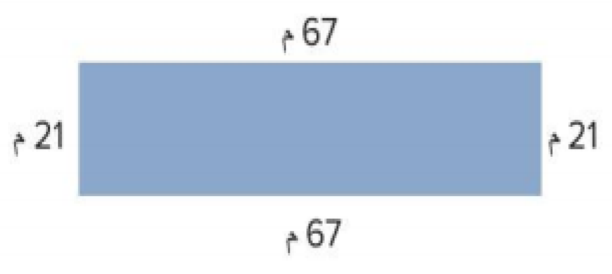




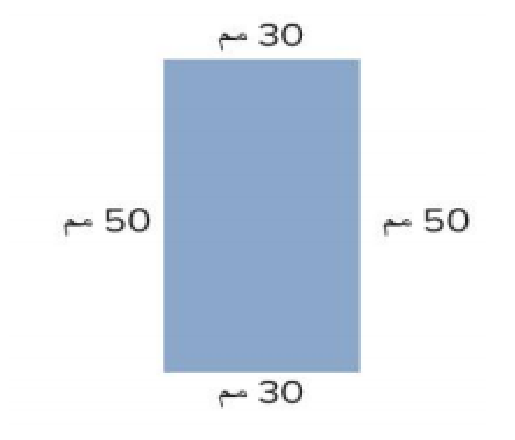
2) by using two rules find the perimeter:-

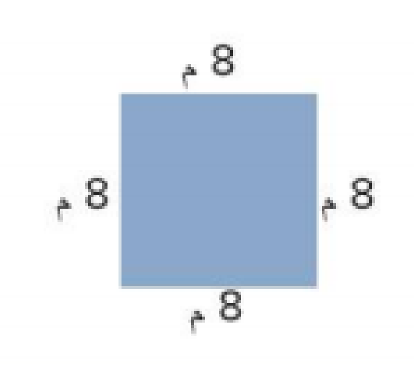






First rule: ………………………………………………………… Second rule: …………………………………………………………	First rule: ……………………………………………………… Second rule: ………………………………………………………





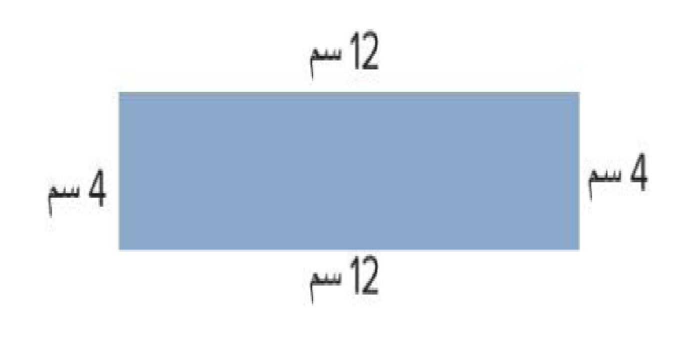
First rule: ……………………………………………………… Second rule: ………………………………………………………	First rule: …………………………………………………… Second rule: ……………………………………………………..

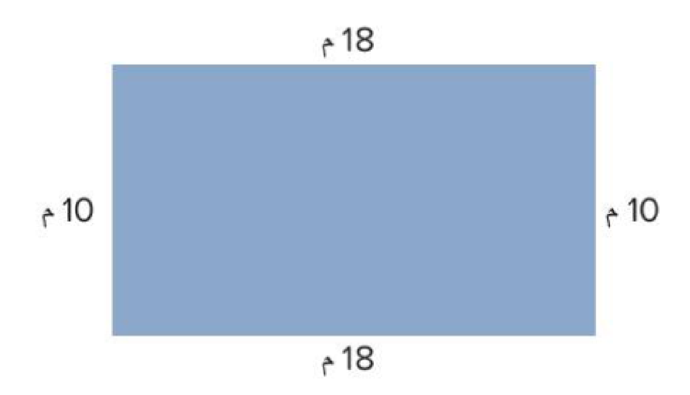


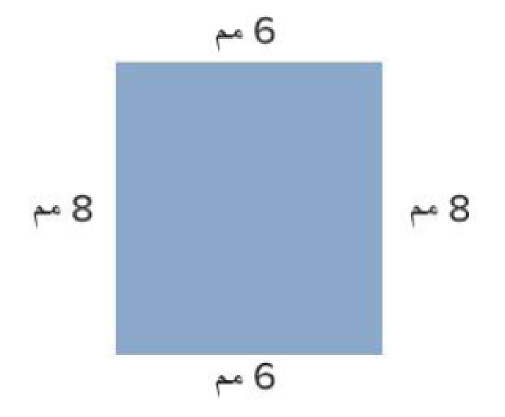


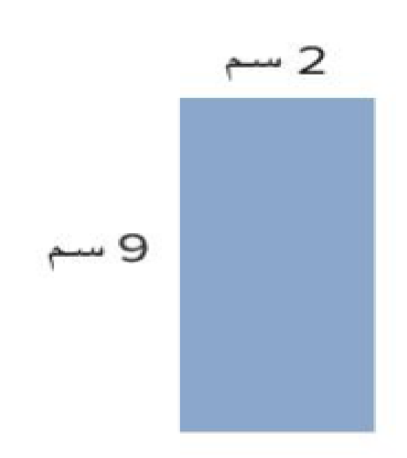
(Fill the space)

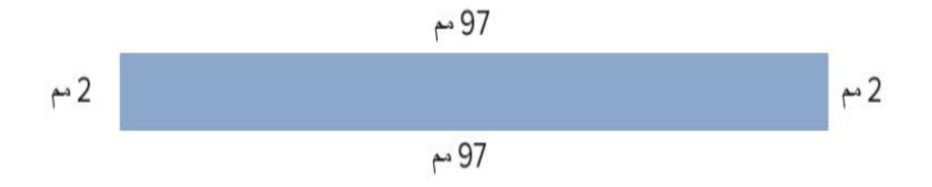
Find the area of the following:-











The length of a rectangle is b. The width is c.



What is the calculation for the area?

Eva needs to calculate the area of her room in order to buy new flooring. The room has the shape of a rectangle with a length of 10 meters and a width of 5 meters. How should Eva calculate the area of the room?

Lesson 3

(Something is missing)



Find the missing:-

X units

Perimeter = 26 units

5 units

10 units

area = 50 square unit

X units

15 units

Perimeter = 44 units

X

7 cm

area = 28 cm^2

X

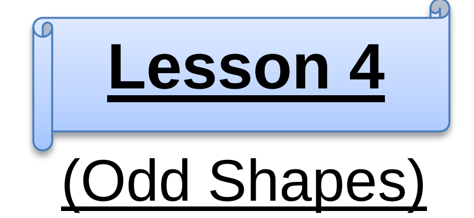
A patio is in the shape of a rectangle. It has an area of 30 square meters. The length of the patio is 6 meters. What is the width of the patio?



Fatah's rectangular room is 8 meters long and has a perimeter of 24 meters. What is the width of the room?

A rectangle is 10 cm wide and 20 cm long

Find the perimeter?

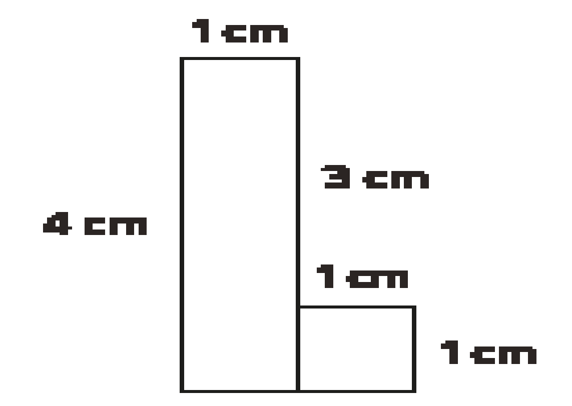


Lesson 4

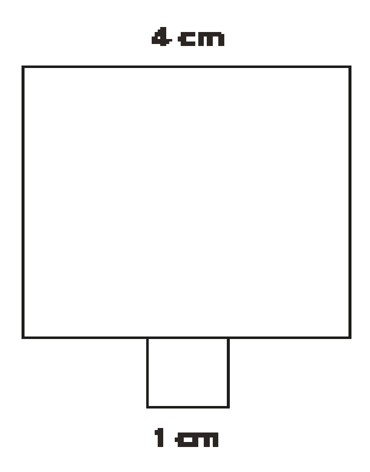
(Odd Shapes)

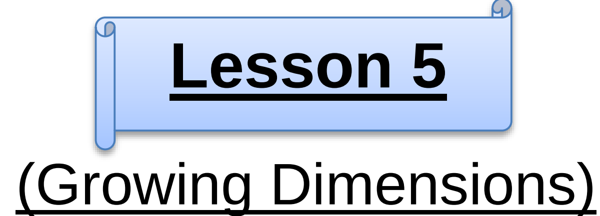


What is the perimeter and the area of the figure?



What is the perimeter and the area of the figure?







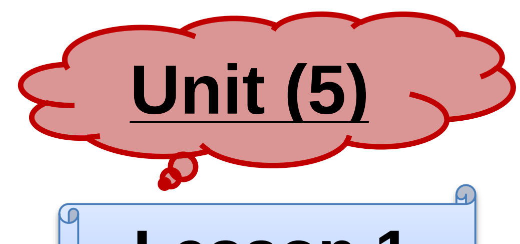
(Growing Dimensions)

Draw a rectangle with a width of 5 cm and a length 4 times its width then find the perimeter and the area

----

A rectangular garden is 5 meters wide and 7 meters long. What is the area of the garden?

Fadil has a rectangular garden that is 5 meters wide and 4 times as long. What is the area of Fadil's garden?





Lesson 1

(Understanding Multiplicative comparison)

Complete:-

6 + 6 + 6 = ……… × ……….. = ……………

2 + 2 + 2 + 2 + 2 + 2 = ……….× ………… = …………..

12 = ……… times …………

30 = ……… times …………

24 = ……… times …………

18 = ……… times …………

20 = ……… times …………

49 = ……… times …………

7 + 7 + 7 = ……… times …………

9 + 9 + 9 + 9 = ……… times …………

5 + 5 + 5 + 5 + 5 = ……… times …………

Lesson 2

(Creating Multiplicative Comparison Equations)

Fadl Language School
MOVING AHEAD

Using multiplication to represent the following equations:-

1) A number equals 5 times 6 ……………………………..

2) 16 equals 8 times a number ……………………………..

3) A number equals 2 times 9 ……………………………..

4) 28 equals 7 times a number ……………………………..

5) 40 equals 4 times a number ……………………………..

6) 72 equals 9 times a number ……………………………..

7) A number equals 5 times 3 ……………………………..

8) A number equals 4 times 3 ……………………………..

9) 18 equals 6 times a number …………………………….

10) 25 equals 5 times a number ……………………………

By using multiplication write the following equations:-



1) Ahmed collected 7 pictures on Monday, and on Thursday he collected 4 times what he collected on Monday.

Write the number of pictures he collected on Thursday.

……………………………………………………………………

----

2) Omar has 10 balls, Hatem has 6 times what Omar has

Write the number of balls with Hatem.

……………………………………………………………………

----

3) Ali ate 5 oranges, and his sister ate 8 times what he ate

Write the number of oranges his sister ate.

……………………………………………………………………

----

4) Heba bought 6 skirts, and Nora bought skirts equal 7 times skirts that Heba bought

Write the number of shirts with Nora.

……………………………………………………………………



Lesson 3

(Solving Multiplicative Comparison Equations)

Complete:-

7 times ………………... = 56

3 times ………………… = 24

6 times ………………… = 30

4 times …………….…… = 16

8 times ………………… = 48

2 times ………………… = 18

………………… times 6 = 42

………………… times 9 = 54

………………… times 4 = 36

………………… times 2 = 14

………………… times 8 = 72

………………… times 1 = 10

5 times 6 = ……………………

2 times 8 = ……………………

7 times 3 = ……………………



Complete:-

What is the number that equals 10 times 9?

Equation: a = …….. X ……..

Answer: a = …………………

What is the number that equals 6 times 3?

Equation: ……………………………….

Answer: ……………………………….

A number times 3 equals 27, what is this number?

Equation: c X 3 = 27

Answer: c = …………………

A number times 5 equals 40, what is this number?

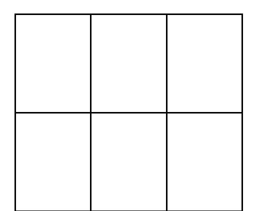
Equation: ……………………………….

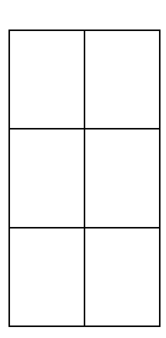
Answer: ……………………………….

Lesson 4



(Commutative Property of Multiplication)





This array is: 2 x 3

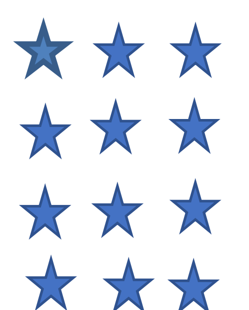
This array is: 3 x 2

2 x 3 = 3 x 2 = 6

This is called commutative property

Examples:-

Using commutative property for multiplication to show how can we order 12 stars.





This array is: ….. x …….

This array is: ….. x …….

So, ….. x ……. = …... x …….



Using commutative property for multiplication to complete the following:-

7 x 5 = ……. x 7

10 x 6 = ……. x 10

8 x 3 = 3 x ………

4 x 9 = 9 x ……….

Using commutative property for multiplication to find the unknown number:-

6 x 8 = a x 6 a = ………………….

12 x 11 = b x 12 b = ………………….

c x 4 = 4 x 3 c = ………………….

7 x d = 10 x 7 d = ………………….

Hamza has 18 books .write equations to show how he can order the books by using commutative property for multiplication.

……………………………………………………………………

……………………………………………………………………

Lesson 5



(Patterns of Multiplying by 10s)

Find the result by using place value strategy:-

- ………… = 5 × 100
- 2 × 1,000 = ……….
- …….. × 7 = 700
- 9 × …….. = 9,000
- 4 × 10,000 = ……..
- …………….. = 6 × 100
- …………….. = 300
- ……………… = 8 × …..00
- ……………… = 500 × ……
- …………….... = 9 × ……0
- ………………= ……. × 6000
- …………….... = 5 × …00
- …………….... = 7 × 100,000
- …………….... = 9 × 1000,000
- …………….... = ….× 10,0000

Lesson 6

(Exploring Patterns in Multiplication)



Use multiplication strategies you learned to solve the problems:-

- 3 × 900 = ……………………………………………………
- 4 × 20 =……………………………………………………
- 8 × 600 = ……………………………………………………
- 6 × 500 = ……………………………………………………
- 2 × 500 = ……………………………………………………
- 3 × 700 = ……………………………………………………
- 9 × 600 = ……………………………………………………
- 7 × 400 = ……………………………………………………
- 8 × 500 = ……………………………………………………
- 2 × 800 = ……………………………………………………
- 7 × 700 = ……………………………………………………
- 5 × 500 = ……………………………………………………
- 9 x 400 = ……………………………………………………
- 10 x 200 = ……………………………………………………

Lesson 7

(Exploring More Patterns in Multiplication)



Find the result:-

- $(2 \times 3) \times 4 =$ ……. × ……. = ……...
- $(5 \times 2) \times 3 =$ ……. × …….. = ……..
- $(4 \times 3) \times 2 =$ …….. × ……. = ……..
- $(3 \times 2) \times 5 =$ …….. × ……. = …….
- $(2 \times 4) \times 5 =$ …….. × ……. = …….
- $(3 \times 3) \times 4 =$ …….. × ……. = …….
- $(2 \times 4) \times 3 =$ …….. × ……. = …….
- $(1 \times 10) \times 5 =$ ……. × …….. = …….

Apply associative property to solve the problems:-

- $2 \times 4 \times 5 =$ ……………………………
- $2 \times 5 \times 3 =$ ……………………………
- $3 \times 2 \times 4 =$ …………………………..
- $3 \times 2 \times 3 =$ …………………………..
- $6 \times 2 \times 3 =$ …………………………..

Lesson 8



(Applying patterns in Multiplication)

Complete:-

3 tens = …………   8 tens = ………....

11 tens = ……….   16 tens = ……….

7 × 20 = ………..   5 × 50 = ……….

4 × 700 = ………   3 × 4,000 = ………

(4 × 6) × 3 = ……… × (6 × 3)

6 × (7 × 4) = (6 × ….…..) × 4

(5 × 4) × ….…. = 5 × (…….. × 9)

(2 × ……..) × 5 = 2 × (9 × 5)

7 × 3 × …….... = …….… × (3 × 6)

(9 × 3) × 5 = ……. × (…….. × …….)

(3 × 2) × 7 = ……….

2 × (5 × 6) = ……….

(4 × 2) × 9 = ………..

$(5 \times 2) \times 3 =$ ……….



$8 \times (2 \times 4) =$ ……….

$7 \times (2 \times 5) =$ ……….

$(2 \times 3) \times 6 =$ ……….

$(5 \times 5) \times 4 =$ …………

Which equation shows how to apply the associative property of multiplication to determine the value of $3 \times (2 \times 100)$?

a) $5 \times 10 = 50$

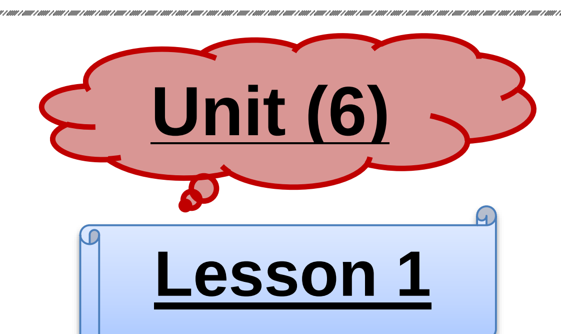
b) $6 \times 10 = 60$

c) $3 \times 20 = 320$

d) $3 \times 12 = 36$

Use the associative property of multiplication to solve the equation

$6 \times (3 \times 100) =$ ……..





(Identifying Factors of Whole Number)

Find the factors of the numbers:-

8 ……………………..

10 ……………………..

30 ……………………..

20 ……………………..

16 ……………………..

48 ………………………

Write the pairs of the factors:-

32 ……………

7 ………………

81 ………………

18 ………………..

35 ………………..

Write the factors of the numbers then find the number of them:-



18 ………………..

14 ………………….

24 …………………

42 ………………..

Which list includes all factors of 24?

a) 0 , 1 , 4 , 6 , 24

b) 24 , 48 , 72 , 96

c) 2 , 3 , 4 , 6 , 8 , 12

d) 1 , 2 , 3 , 4 , 6 , 8 , 12 , 24

Which list all factors of 16?

a) 1 , 16

b) 2 , 4 , 8

c) 1 , 2 , 4 , 8 , 16

d) 1 , 2 , 4 , 6 , 8 , 16

Lesson 2



(Prime and Composite Number)

Which is a prime number?

a) 1

b) 7

c) 15

d) 6

Which is a composite number?

a) 1

b) 3

c) 15

d) 2

Which is a prime or composite number?

5 , 13 , 18 , 19 , 22

3 , 9 , 14 , 17 , 20

Underline the number that is its factors is 3:-

35 , 132 , 328 , 2,356 , 12,1311

Lesson 3



(Greatest Common Factor)

Write common factors of the following numbers:-

42 , 36

....

....

....

4 , 18

....

....

....

30 , 20

....

....

....

35 , 21

....

....

....

Find the greatest common factor of each two numbers:-

40 , 50

....
....
....

24 , 10

....
....
....

11 , 13

....
....
....

84 , 36

....
....
....

Lesson 4



(Identifying Multiples of Whole Number)

By using 120 chart find the multiples of the following numbers:-

2

……………………………………………………………………

……………………………………………………………………

3

……………………………………………………………………

……………………………………………………………………

4

……………………………………………………………………

……………………………………………………………………

5

……………………………………………………………………

……………………………………………………………………

6

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7

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8

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9

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10

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